

Incident report of San Francisco in summer 2014

For the course of [Data Science at Scale](#) on [Coursera.org](#)

By Zhipeng Liang

Email: Liangzp2k@hotmail.com

Dec. 6, 15

Introduction

This report is of finding and interpreting some patterns and relationships concealed in the data of Incident occurred in San Francisco in summer 2014.

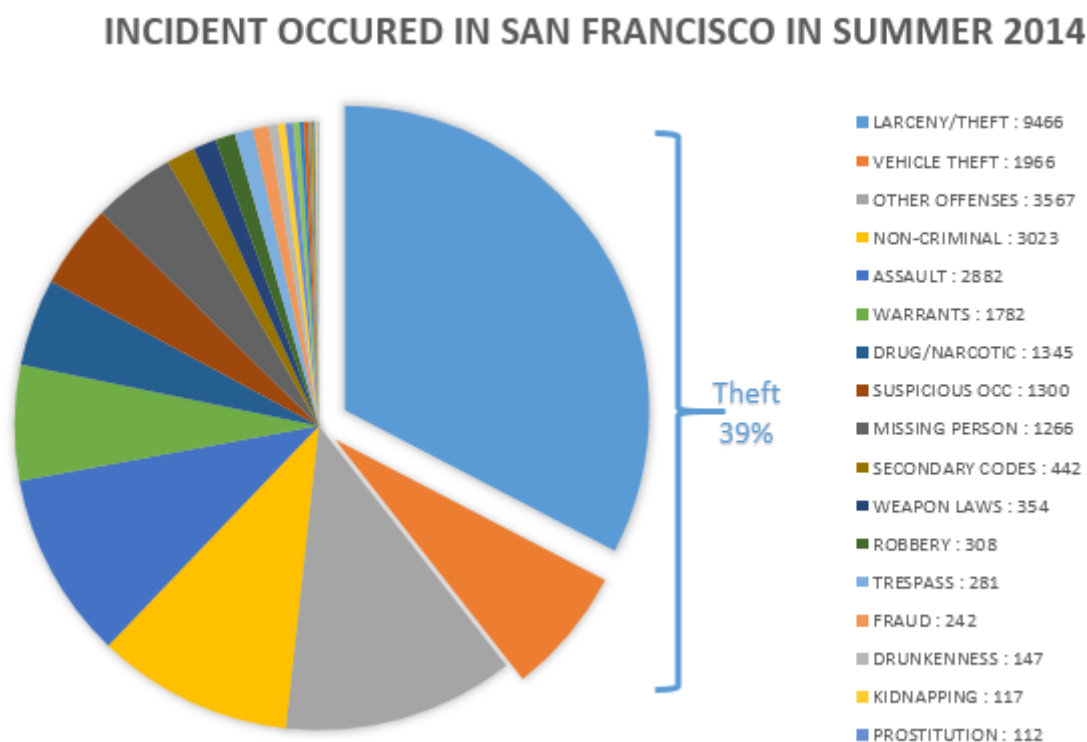
Methods

- The data of Incident occurred in San Francisco in summer 2014 download from https://github.com/uwescience/datasci_course_materials/tree/master/assignment6
- MySQL download form <http://www.mysql.com/downloads>
- Excel and Word from Microsoft Office 2013

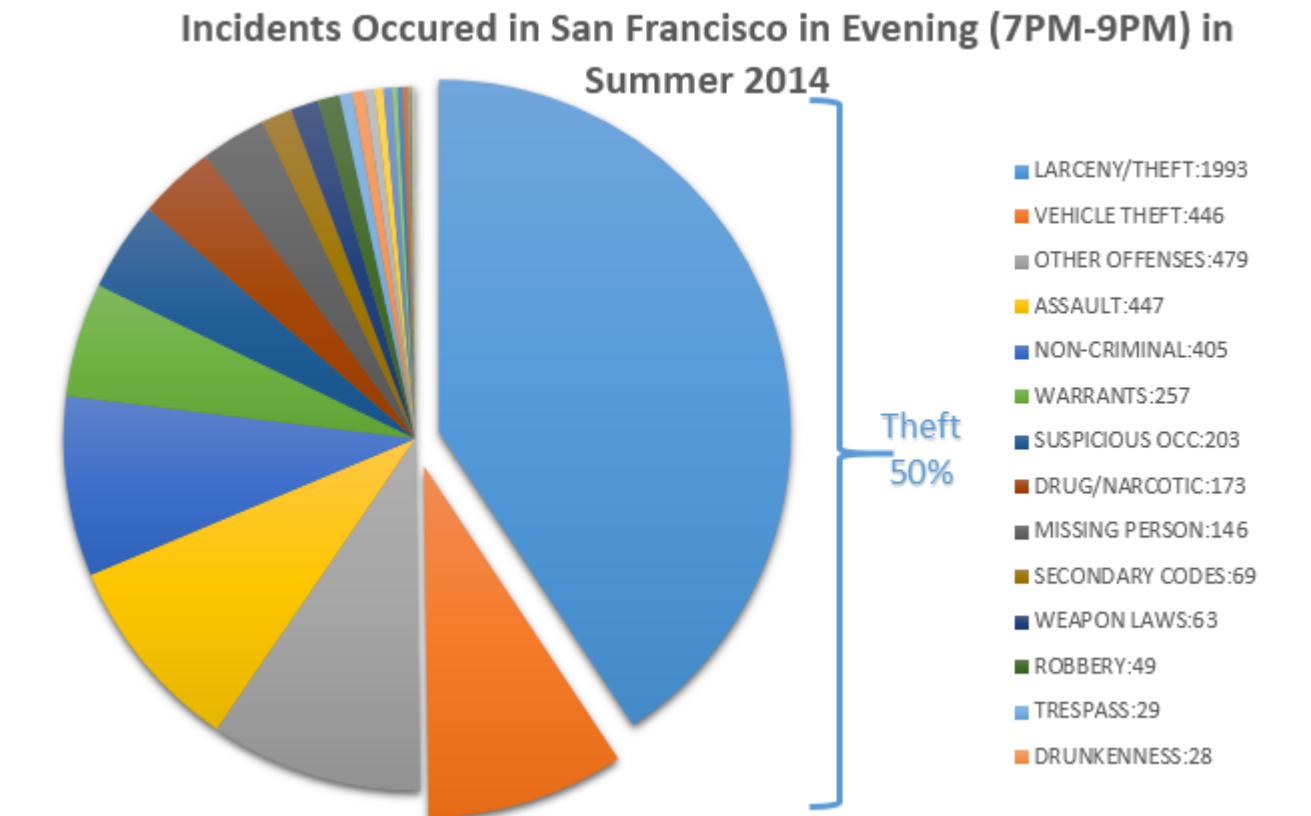
Findings

1. Theft took significant parts of incident. Furthermore, they raised in evening

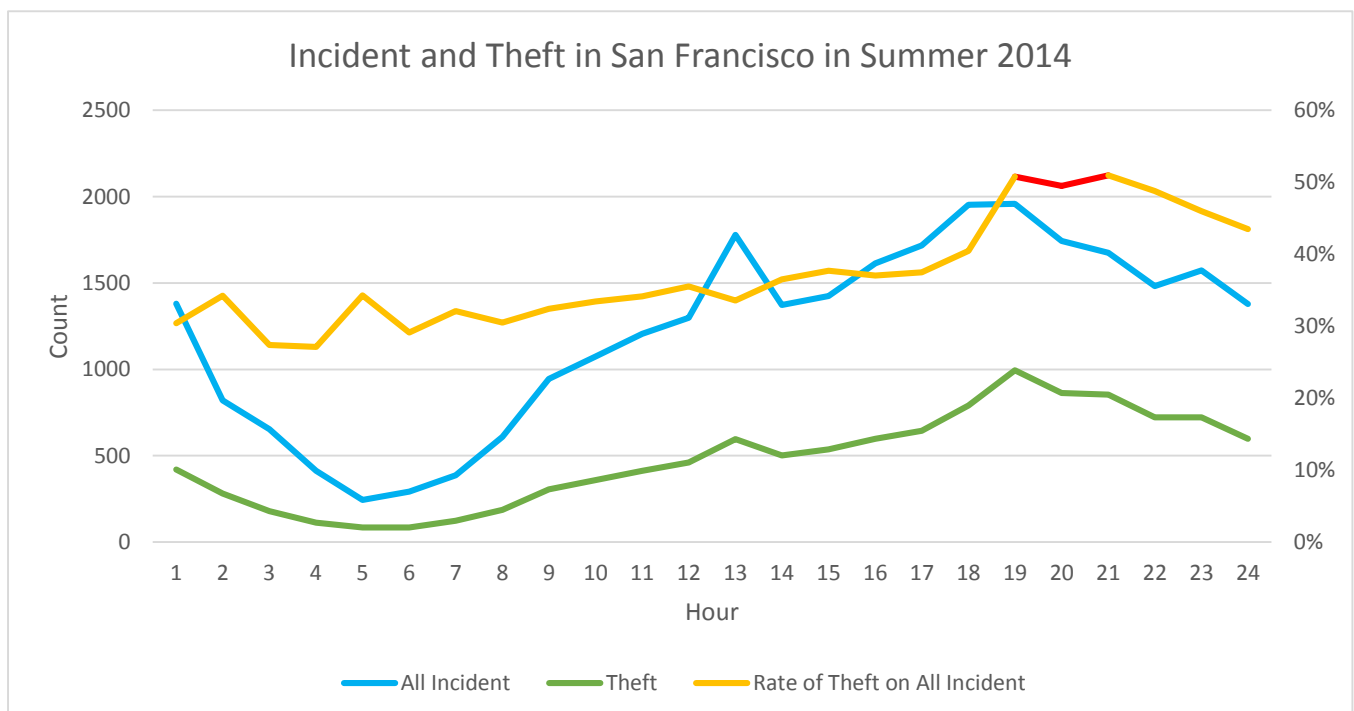
1.1. Theft (including larceny and vehicle) took 39% of all incident



1.2. Theft (including larceny and vehicle) took a half of incident in evening.

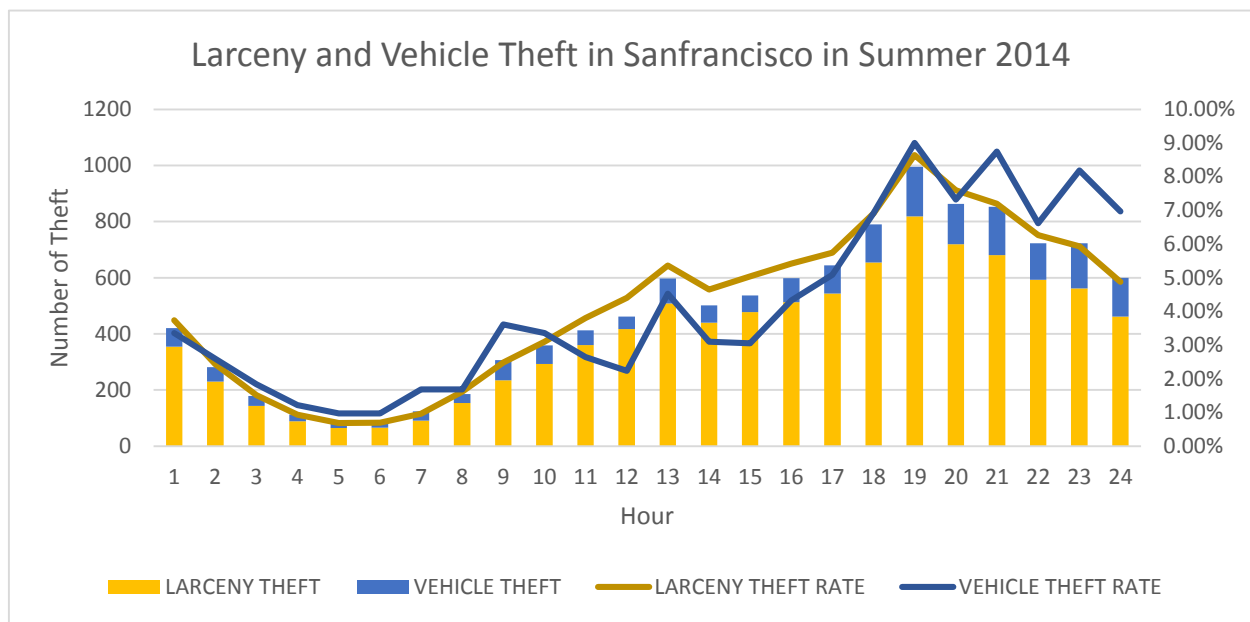


1.3. The rate of theft raised at evening and reached 50% of all incident



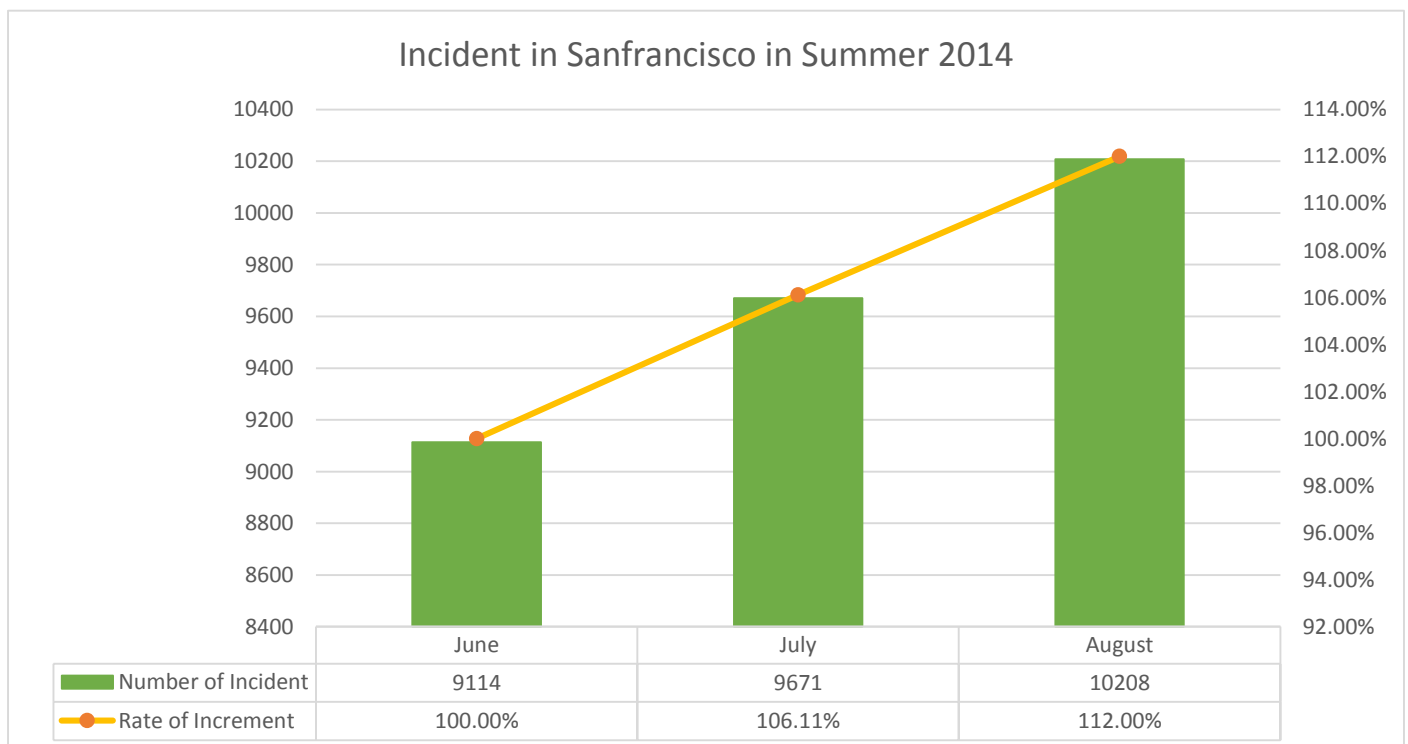
Note: The red lines show theft rate reached 50% of all incident.

1.4. The total number of larceny and vehicle theft was over 800 at evening

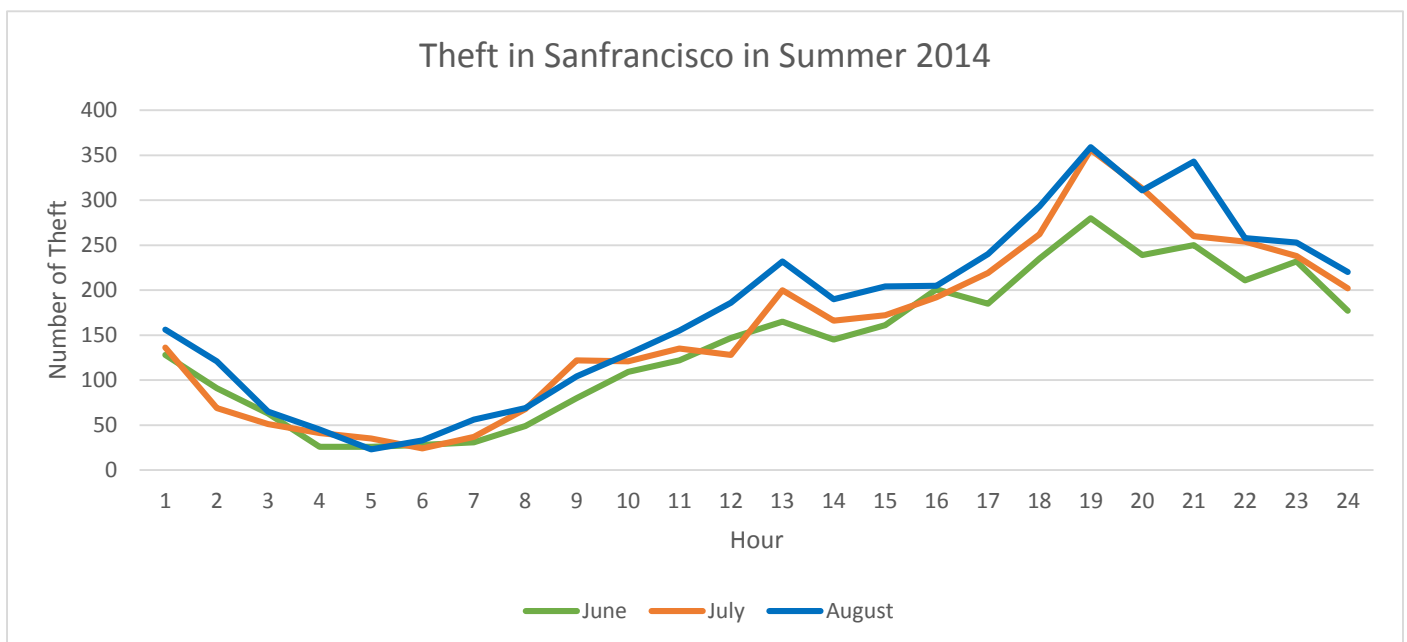
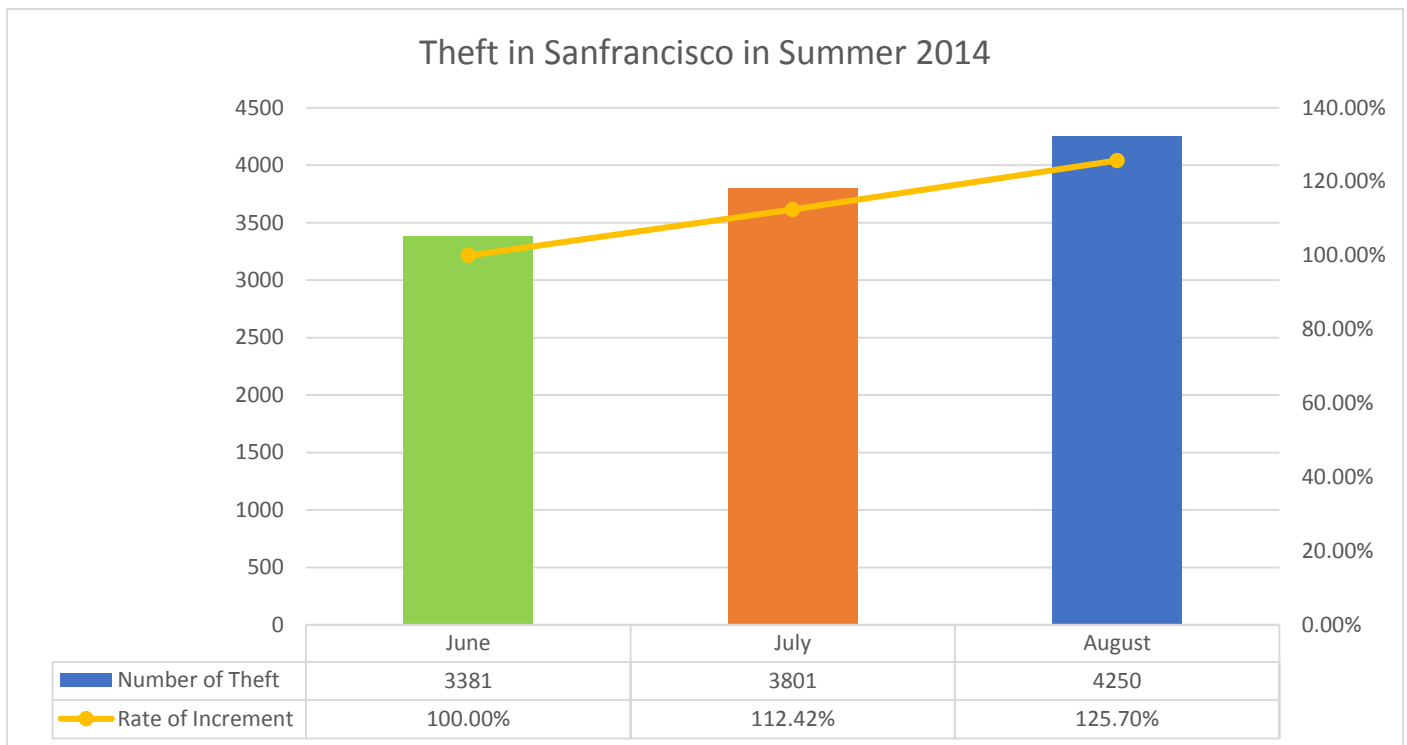


2. Incident increased in the summer 2014

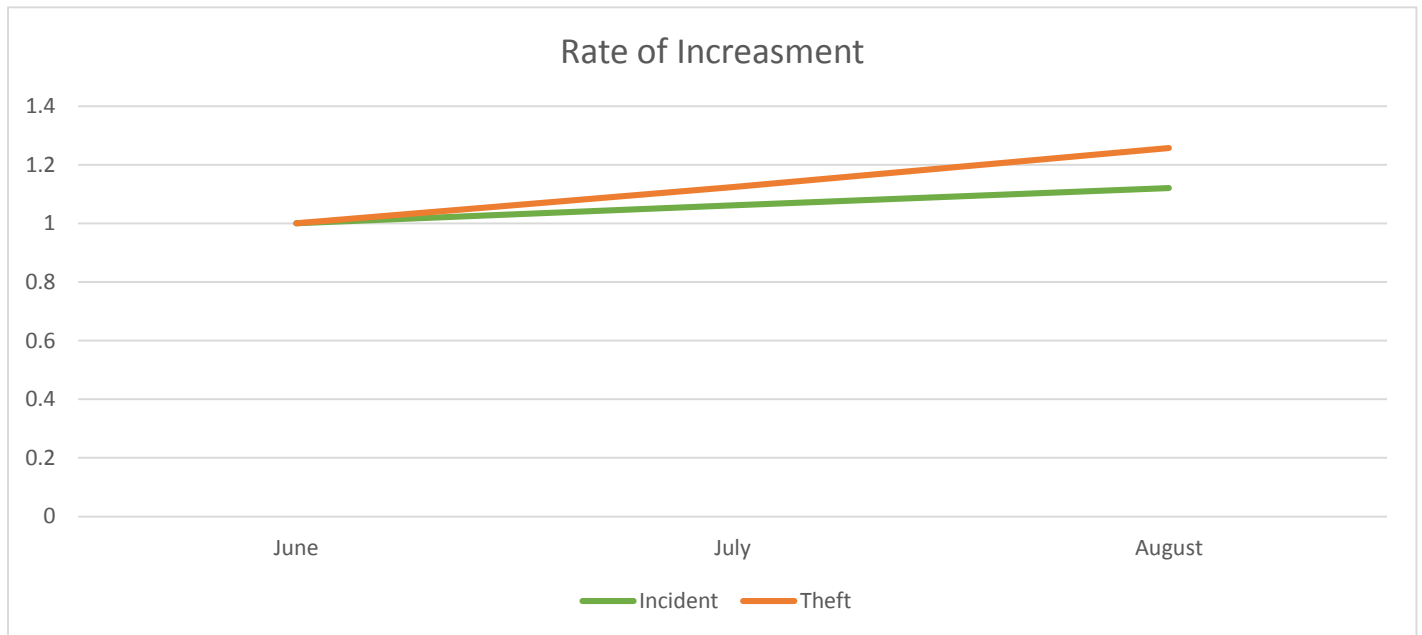
2.1. The total number of Incident increased in the summer 2014



2.2. Theft of Incident increased in the summer 2014

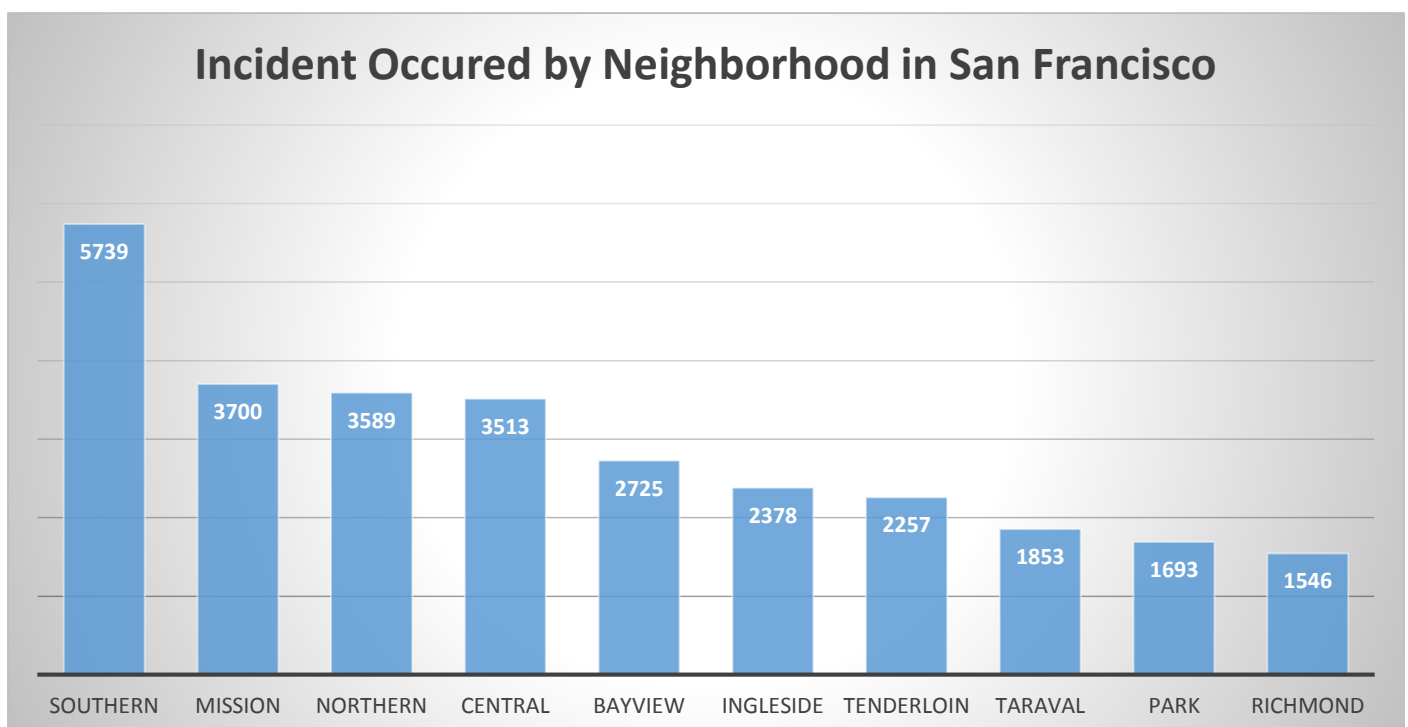


2.3. The increment of theft is higher than incident in the summer 2014

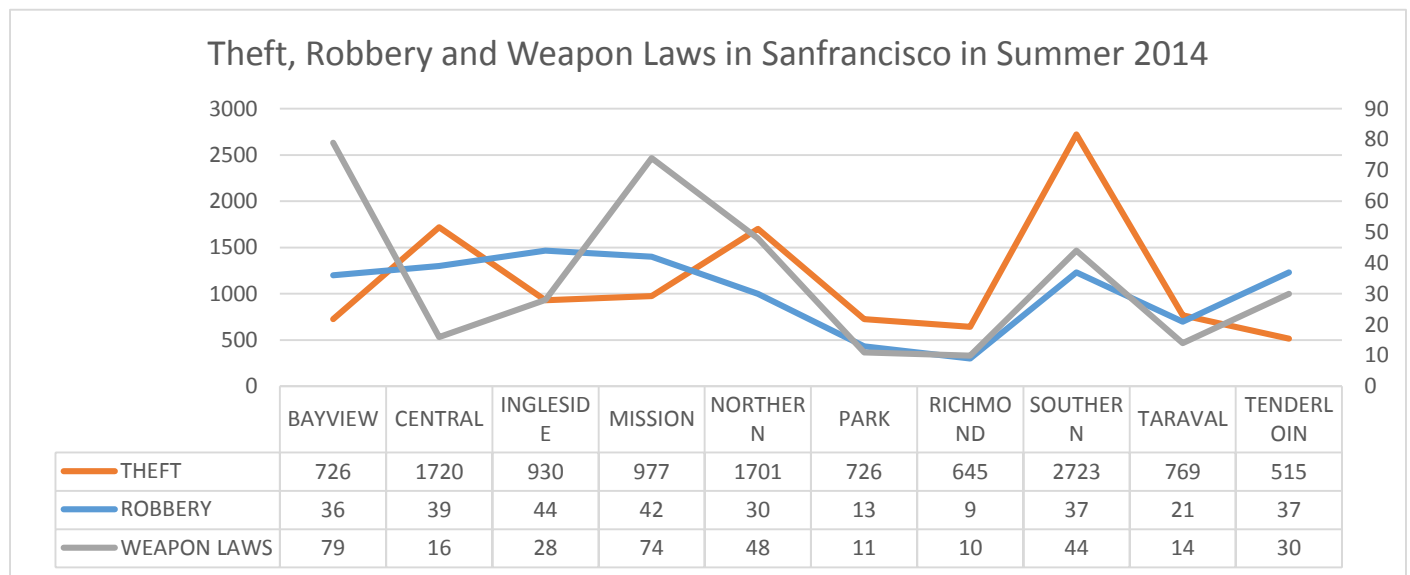


3. Incident occurred in various areas

3.1. The highest incident occurred in Southern and the less areas are Taraval, Park and Richmond.

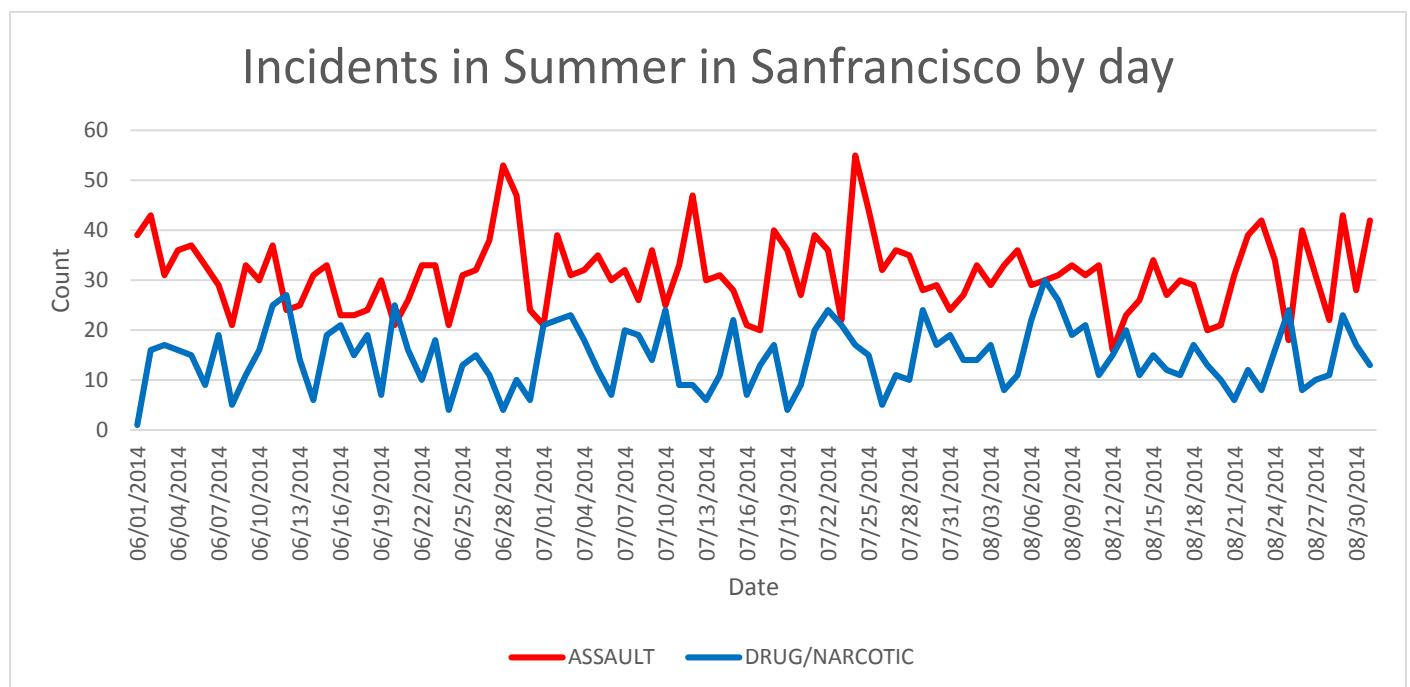


3.2. The highest incident occurred in Southern and the less areas are Taraval, Park and Richmond.

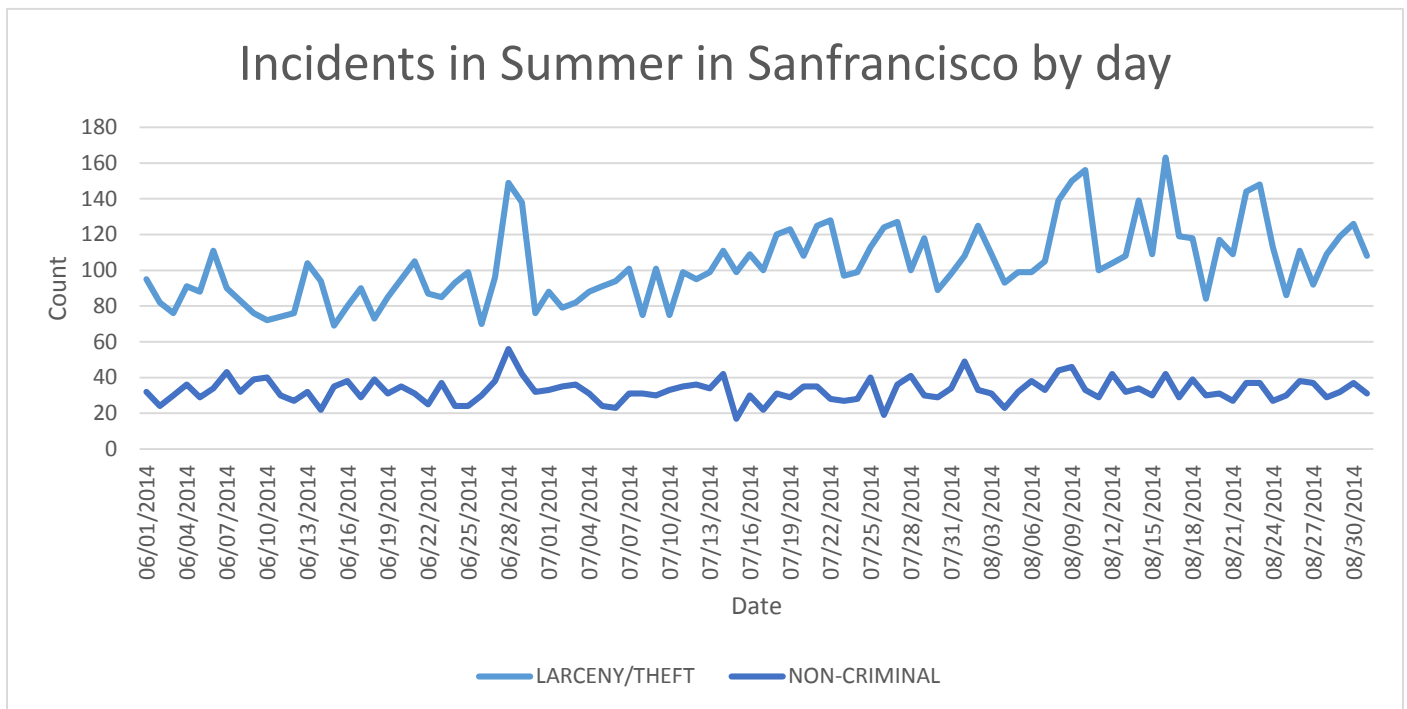


4. Some incident are related

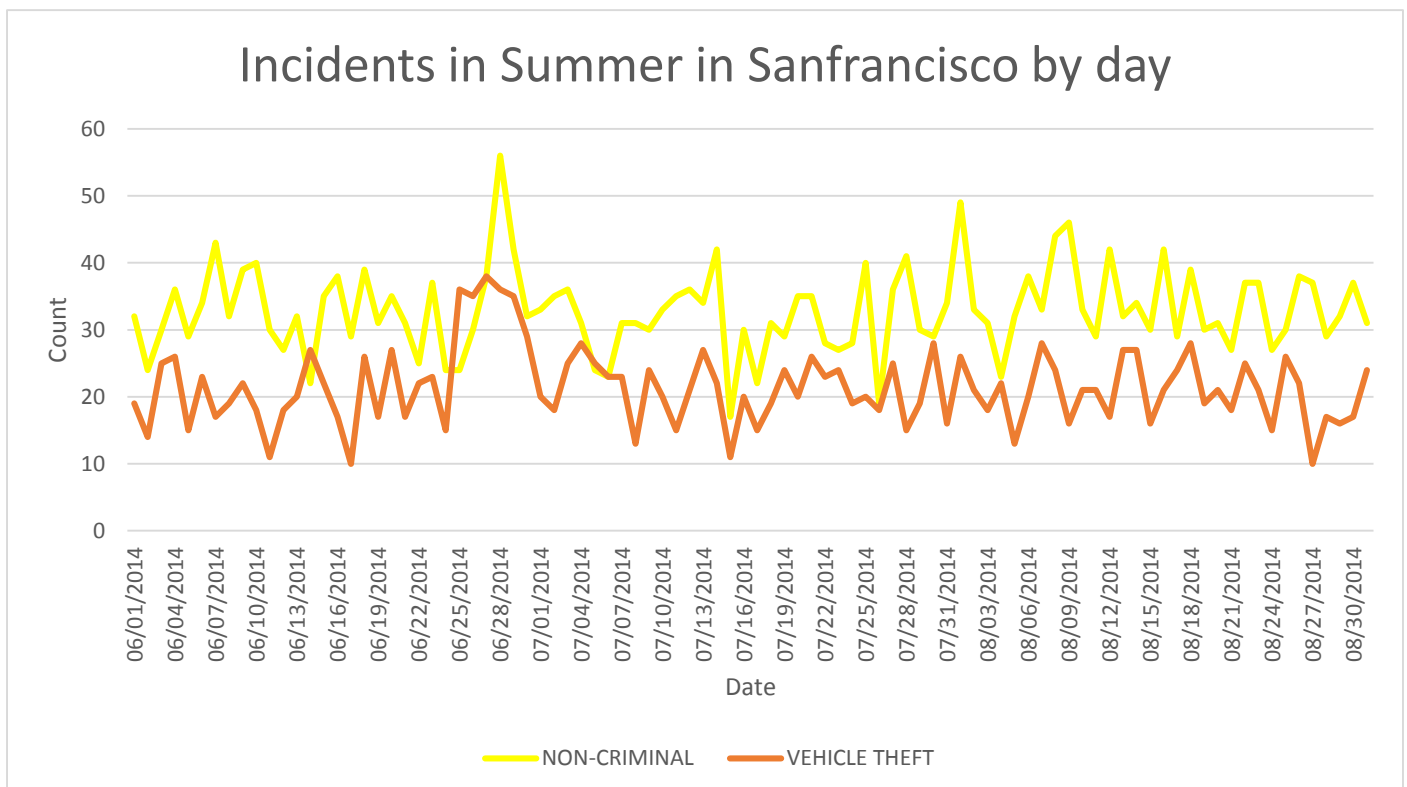
4.1. Assault was opposite to drug by day



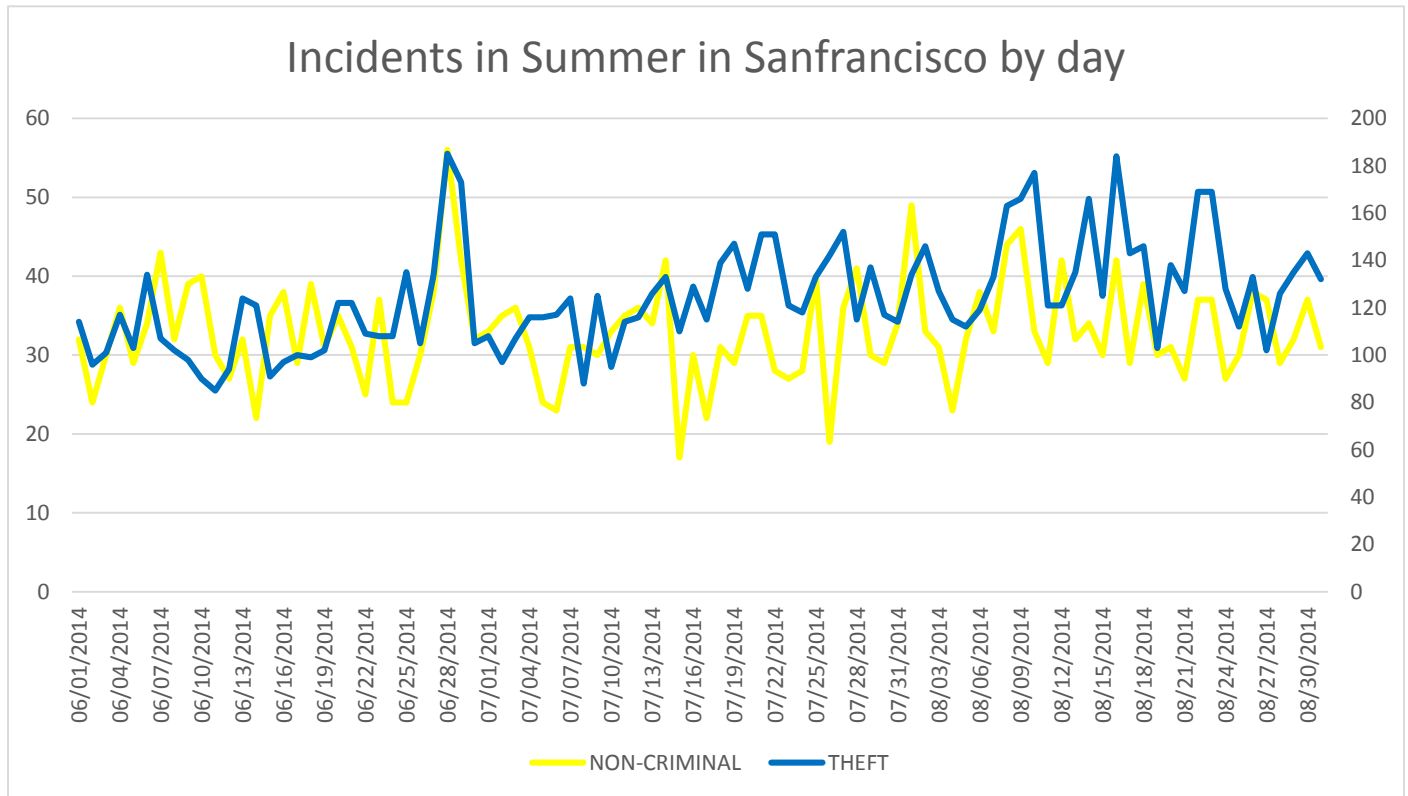
4.2. Larceny theft was likely to non-criminal by day



4.3. Vehicle theft was likely to non-criminal by day



4.4. Theft (including both vehicle and larceny) was likely to non-criminal by day



Summary

In summer in San Francisco, theft took a big part of incident. The lowest incident occurred at 5 AM and the highest at 7 PM. From June to August, the number of incident increased 12%. In the city, The highest incident occurred in Southern and the safeties areas are Taravel, Park and Richmond. About the relation among the category of incident, assault was opposite to drug, and Theft was likely to non-criminal.